

SPECIFICATION AMENDMENTS

Page 18, line 19 to page 19, line 6:

Using the technology described above, various implementations are applicable to the vehicular environment, as depicted in Figure 7. One embodiment, for example, allows an operator 702 or passenger 704 to control comfort or entertainment features 706 such as the heater, air conditioner, lights, mirror positions or the radio/CD player using hand gestures. An alternative would allow for the automatic adjustment of car seating restraints 710, 712 based on head position. Yet another embodiment would be used to determine when to fire an airbag 714, 716 (and at what velocity or orientation) based on the position of a person in a vehicle seat.

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1. One or more cameras 720, 722, 724, 726 (or other sensing system) to view the driver 702 or passenger 704;

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3. A gesture/behavior recognition system 730 for recognizing and identifying the person's motions; and

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In terms of the sensing system cameras could be mounted anywhere within the vehicle 700 having a suitable view of the person. Other types of sensing systems could alternatively be used. Tracking may be carried out from one or multiple systems, and would preferably return a position in two or three-dimensional space. The gesture/behavior recognition system described above and in the referenced applications would preferably be used to convert the tracked motions into gestures and behaviors. These behaviors would be identified as controls for active or passive systems located in the vehicle. The system would then use the position and gesture information to control various vehicle features, such as the radio, seat position, air-bag deployment, on-board map systems, etc.

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The invention may also be used to control systems outside of the vehicle. The on-board sensor system 730 would be used to track the driver or passenger, but when the algorithms produce a command for a desired response, that response (or just position and gesture information) could be transmitted via various methods (wireless, light, etc., whatever) to other systems outside the vehicle to control devices 732 located outside the vehicle. For example, this would allow a person to use gestures inside the car to interact with a kiosk located outside of the car.